Either the =
David Holloway or
Geoffrey St. Leger

Access DB# 123662

# SEARCH REQUEST FORM

## Scientific and Technical Information Center

16

Requester's Full Name: Gwen Liang    Examiner # : 79180   Date: 6-2-04
Art Unit: 2172    Phone Number 305-3985    Serial Number: 10/083,075
Mail Box and Bldg/Room Location: CPKII 4B25   Results Format Preferred (circle): (PAPER) DISK E-MAIL

**If more than one search is submitted, please prioritize searches in order of need.**
**********************************************************************************************

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Improved Application Portability and Extensibility Through Database
Schema and Query Abstraction
Inventors (please provide full names): _____ DETTINGER, Richard D. ;
Johnson, Peter J. ; STEVENS, Richard J. ; TONG, Ikhua ; WILL, Eric
Earliest Priority Filing Date: 2-26-02

*For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Concept = Abstract   (see A-3)

(A method to map logical or customized
fields to physical fields in the database
in a query issued by users)

prior problems = (see A-1 ~ A-2)

Claims =   1, 3   (See C )

Figures =   Fig 2A   (See B)

＊ Assignee = IBM

**********************************************************************************************

# STIC Search Report
## EIC 2100

**TO: Gwen Liang**
**Location: 4B25**
**Art Unit : 2172**
**Wednesday, June 09, 2004**

**Case Serial Number: 10/083075**

**From: David Holloway**
**Location: EIC 2100**
**PK2-4B30**
**Phone: 308-7794**

**david.holloway@uspto.gov**

## Search Notes

Dear Examiner Liang,

Attached please find your search results for above-referenced case.
Please contact me if you have any questions or would like a re-focused search.

David

```
Set       Items    Description
S1          42     AU=(DETTINGER R? OR DETTINGER, R?)
S2        1091     AU=(JOHNSON P? OR JOHNSON, P?)
S3         679     AU=(STEVENS R? OR STEVENS, R?)
S4           3     AU=(TONG I? OR TONG, I?)
S5          61     AU=(WILL E? OR WILL, E?)
S6           1     S1 AND S2 AND S3 AND S4 AND S5
S7          26     (S1 OR S2 OR S3 OR S4 OR S5) AND IC=G06F-007?
S8          11     S7 AND (MAPPING? OR MAPPED OR MAP OR MAPS OR LINK? OR ASSO-
                   CIAT?)
S9           6     S8 AND (QUER? OR INQUIR? OR REQUEST? OR DATA()(MINE? OR MI-
                   NING) OR DATAMINING OR SEARCH()STATEMENT)
S10          3     S9 AND (PHYSICAL OR LOGICAL OR VIRTUAL OR ACTUAL)
S11         11     S6 OR S8
S12         11     IDPAT (sorted in duplicate/non-duplicate order)
S13         11     IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2004/Jan(Updated 040506)
         (c) 2004 JPO & JAPIO
File 348:EUROPEAN PATENTS 1978-2004/Jun W01
         (c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20040603,UT=20040527
         (c) 2004 WIPO/Univentio
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200435
         (c) 2004  Thomson Derwent
```

13/5/1      (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

016189026      **Image available**
WPI Acc No: 2004-346912/200432
XRPX Acc No: N04-277521
  Data accessing method for computerized data storage and retrieval system,
  involves  associating  multiple query conditions with parameter marker
  embedded in query
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC  )
Inventor: DETTINGER R D ;  STEVENS R J
Number of Countries: 001  Number of Patents: 001
Patent Family:
Patent No      Kind   Date      Applicat No   Kind   Date      Week
US 20040073539 A1     20040415  US 2002268450  A      20021010  200432  B

Priority Applications (No Type Date): US 2002268450 A 20021010
Patent Details:
Patent No   Kind Lan Pg   Main IPC      Filing Notes
US 20040073539 A1      30 G06F-007/00

Abstract (Basic): US 20040073539 A1
      NOVELTY - Multiple query conditions are  associated  with the
  parameter marker embedded in a query. Complete query is built by
  substituting each query condition for the parameter marker. The query
  execution results are received and stored after executing complete
  query against a data source.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
  following:
      (1) computer readable medium storing program for data accessing;
  and
      (2) database system.
      USE - For computerized data storage and retrieval system for data
  processing and data mining, trend analysis and data warehouse
  exploration.
      ADVANTAGE - Generates and executes queries with high level
  parameter markers having multiple  associated  query conditions.
  Facilitates data mining, trend analysis, and data warehouse
  exploration. Enables generating a number of complete queries targeting
  different data groups from a single parameterized query. Facilitates
  building complex queries using large number of query conditions and
  enables to reuse parameter markers in different applications.
      DESCRIPTION OF DRAWING(S) - The figure shows a relational view of
  the software components.
      pp; 30 DwgNo 2/13
Title Terms: DATA; ACCESS; METHOD; COMPUTER; DATA; STORAGE; RETRIEVAL;
  SYSTEM; ASSOCIATE ; MULTIPLE; QUERY; CONDITION; PARAMETER; MARK; EMBED;
  QUERY
Derwent Class: T01
International Patent Class (Main): G06F-007/00
File Segment: EPI


13/5/2    (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

015902856      **Image available**
WPI Acc No: 2004-060696/200406
XRPX Acc No: N04-049139
  Data record correlation program storage medium for credit card
  transaction, has instructions to  map  record of one data source to
  internal identifier of record of another data source, if their external
  identifiers are same
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC  )
Inventor: TENNER J W;  WILL E W
Number of Countries: 001  Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 20030225742 | A1 | 20031204 | US 2002161251 | A | 20020531 | 200406 | B |

Priority Applications (No Type Date): US 2002161251 A 20020531
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20030225742 | A1 | | 41 | G06F-007/00 | |

Abstract (Basic): US 20030225742 A1
    NOVELTY - The storage medium stores data record correlation program
which when executed determines a data record of the extracted data
source (420), having same external identifier as that of a particular
data record of real time data source (410). The determined data record
of extracted data source is  mapped  to an internal identifier
**associated**  with the particular data record of real time data source.
    DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
following:
    (1) method of correlating data records of different data sources;
    (2) method of creating data warehouse  mapping  data structure;
    (3)  mapping  data structure;
    (4) data warehouse  mapping  table; and
    (5) computer using data record correlation program storage medium.
    USE - Storage medium for storing program for correlating data
records of different data sources in data warehouse of credit card
transaction system of financial institutions.
    ADVANTAGE - Enables efficient correlation between data records of
two different data sources.
    DESCRIPTION OF DRAWING(S) - The figure shows a schematic view of
the data management system.
    data management system (400)
    real time data source (410)
    replication software (412)
    extracted data source (420)
    extraction software (422)
    pp; 41 DwgNo 4/11
Title Terms: DATA; RECORD; CORRELATE; PROGRAM; STORAGE; MEDIUM; CREDIT;
  CARD; TRANSACTION; INSTRUCTION; **MAP** ; RECORD; ONE; DATA; SOURCE;
  INTERNAL; IDENTIFY; RECORD; DATA; SOURCE; EXTERNAL; IDENTIFY
Derwent Class: T01; T05
International Patent Class (Main): **G06F-007/00**
File Segment: EPI


 13/5/3      (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

015875906     **Image available**
WPI Acc No: 2004-033737/200403
XRPX Acc No: N04-026818
  **Logical field specification generating method for computer system,
  involves determining data items**  associated  **with sub-field descriptor,
  by accessing physical entity of data and**  linking  **each specification
  sub-field to determined item**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC  )
Inventor: **DETTINGER R D ; STEVENS R J**
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 20030220893 | A1 | 20031127 | US 2002153977 | A | 20020523 | 200403 | B |

Priority Applications (No Type Date): US 2002153977 A 20020523
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20030220893 | A1 | | 26 | G06F-007/00 | |

Abstract (Basic): US 20030220893 A1

NOVELTY - Each specification sub-field of a logical field specification template, is designated by a sub-field descriptor. The physical entity of data is accessed, to determine the data items associated with the sub-field descriptors. Each of the specification sub-field, is linked to corresponding determined data item.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) computer readable medium storing logical field specification generating program; and

(2) data structure in storage medium representing logical field specification.

USE - For accessing and processing data independently regardless of particles architecture, in database management system, for demanding access to specified database.

ADVANTAGE - Applicable to any comparable hardware configuration, regardless of complication of computer system.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the computer system.

computer (102)
server (104)
memory (112)
network (126)
bus (130)
pp; 26 DwgNo 1/8

Title Terms: LOGIC; FIELD; SPECIFICATION; GENERATE; METHOD; COMPUTER; SYSTEM; DETERMINE; DATA; ITEM; ASSOCIATE ; SUB; FIELD; DESCRIBE; ACCESS; PHYSICAL; ENTITY; DATA; LINK ; SPECIFICATION; SUB; FIELD; DETERMINE; ITEM

Derwent Class: T01
International Patent Class (Main): G06F-007/00
File Segment: EPI


13/5/4      (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.


015716210      **Image available**
WPI Acc No: 2003-778410/200373
Related WPI Acc No: 2003-778362
XRPX Acc No: N03-623860
Physical data access provision method for computer system e.g. server computer, involves providing mapping rules for mapping logical fields of query specification to physical entities of data
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC  )
Inventor: DETTINGER R D ;  JOHNSON P J ;  STEVENS R J ;  TONG I ;  WILL E
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 20030172056 | A1 | 20030911 | US 200283075 | A | 20020226 | 200373 | B |

Priority Applications (No Type Date): US 200283075 A 20020226
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20030172056 A1 | | | 13 | G06F-007/00 | |

Abstract (Basic): US 20030172056 A1
NOVELTY - A query specification (122) containing logical fields for defining an abstract query is provided for an application (120). The mapping rules are provided to map the logical fields to physical entities of the data to be accessed.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) method of accessing data having a particular physical data representation;

(2) computer-readable medium storing program for providing access to data having particular physical data representation;

(3) computer-readable medium storing program for accessing data

having a particular physical data representation; and
     (4) computer.
     USE - For computer (claimed) e.g. client computer, server computer,
portable computer, embedded controller, personal computer (PC)-based
server, mini computer, midrange computer, mainframe computer.
     ADVANTAGE - The data is accessed in an improved and more flexible
manner. Higher productivity and reduced error rates are achieved during
application development.
     DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of a
computer system.
     operating system (118)
     application (120)
     application query specification (122)
     abstract query interface (130)
     display (142)
     pp; 13 DwgNo 1/4
Title Terms: PHYSICAL; DATA; ACCESS; PROVISION; METHOD; COMPUTER; SYSTEM;
  SERVE; COMPUTER; **MAP** ; RULE; **MAP** ; LOGIC; FIELD; QUERY; SPECIFICATION;
  PHYSICAL; ENTITY; DATA
Derwent Class: T01; T06
International Patent Class (Main): **G06F-007/00**
File Segment: EPI


  **13/5/5      (Item 5 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

015716162      **Image available**
WPI Acc No: 2003-778362/200373
Related WPI Acc No: 2003-778410
XRPX Acc No: N03-623820
  Data modifying method, involves providing abstract model defining
  abstract modification describing data model modification operation which
  is transformed into physical modification by runtime component transforms
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )      *not usuable*
Inventor: **DETTINGER** R D ; LAROCCA J L; **STEVENS R J**
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 20030167274 | A1 | 20030904 | US 200283075 | A | 20020226 | 200373 | B |
| | | | US 2003403366 | A | 20030331 | | |

Priority Applications (No Type Date): US 2003403366 A 20030331; US
  200283075 A 20020226
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20030167274 | A1 | | 27 | G06F-007/00 | CIP of application US 200283075 |

Abstract (Basic): US 20030167274 A1
     NOVELTY - The method involves providing an abstract model that
defines an abstract modification specification that describes an
operation to modify the data. The model comprises logical fields and a
rule that  **maps**  the logical fields to physical data fields. A run-time
component transforms the abstract specification into a physical
modification specification that is consistent with the physical data.
     DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a
computer readable medium for modifying data.
     USE - Used for modifying data through a logical framework in data
repositories.
     ADVANTAGE - The abstract representation of a data repository
enables easy changing of the underlying physical representation without
affecting the application and further multiple abstract data
representations can be defined to support different applications
against the same database schema that may have different default
values.
     DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of
computer architecture employed in a data modifying method.
     Network system (100)

```
            Computer (102)
            Server (104)
            CPU (110)
            Bus (112)
            Network (126)
            pp; 27 DwgNo 1/13
Title Terms: DATA; MODIFIED; METHOD; ABSTRACT; MODEL; DEFINE; ABSTRACT;
   MODIFIED; DESCRIBE; DATA; MODEL; MODIFIED; OPERATE; TRANSFORM; PHYSICAL;
   MODIFIED; COMPONENT; TRANSFORM
Derwent Class: T01
International Patent Class (Main):  G06F-007/00
File Segment: EPI
```

**13/5/6      (Item 6 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

015319315     **Image available**
WPI Acc No: 2003-380250/200336
XRPX Acc No: N03-303659
   **Data structure for e-commerce application, has protocol information,
   request data format information corresponding to each transaction type
   and input field information**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC  )
Inventor: O'BRIEN T R; RAPP W C; **STEVENS R J**
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 20030023604 | A1 | 20030130 | US 2001837413 | A | 20010418 | 200336 | B |

Priority Applications (No Type Date): US 2001837413 A 20010418
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20030023604 | A1 | | 33 | G06F-007/00 | |

Abstract (Basic): US 20030023604 A1
        NOVELTY - The data structure includes protocol information for
   identifying the cXML and mXML protocols and transaction type such as
   the purchase order, remote catalog shopping request and invoice
   request, request data format information corresponding to each
   transaction type containing several input fields and also includes
   input field information for identifying the input fields.
        USE - For e-commerce transactions.
        ADVANTAGE - Allows buyers to communicate with multiple seller
   organizations by providing XML formatted message **mapped** to one or
   more business applications. The use of XML facilitates adding new
   functionality to existing products and maintains the compatibility.
        DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of
   e-commerce environment.
        pp; 33 DwgNo 3/17
Title Terms: DATA; STRUCTURE; APPLY; PROTOCOL; INFORMATION; REQUEST; DATA;
   FORMAT; INFORMATION; CORRESPOND; TRANSACTION; TYPE; INPUT; FIELD;
   INFORMATION
Derwent Class: T01
International Patent Class (Main):  **G06F-007/00**
File Segment: EPI

**13/5/7      (Item 7 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

014959088     **Image available**
WPI Acc No: 2003-019602/200301
Related WPI Acc No: 2003-120180; 2003-120181; 2003-120193; 2003-128759;
   2003-139361; 2003-147996; 2003-147997; 2003-209315; 2003-209317;
   2003-209835; 2003-246817; 2003-255367; 2003-290405; 2003-362346;

tissue population comprising storing structural and cell function
indices generated from normal tissue specimens, is new.
     DETAILED DESCRIPTION - A computer implemented method for providing
information representative of tissue types to a subscriber, comprises:
     (a) storing tissue information representative of tissue types in a
database, where for each tissue type the database includes structural
(including cell density, matrix density, blood vessel density, and
layer thickness) and cell function indices (determined by cell function
assays) generated from normal tissue specimens obtained from a subset
of a population of subjects with shared characteristics, where the
indices correspond to statistically significant representations of
characteristics of tissue **associated** with the population; and
     (b) granting subscribers access to the database in exchange for a
subscription fee.
     USE - The methods for classifying various types of tissue will
provide reliable information at the structural level (1-1000 microns,
microscopic). If reliable multi-dimensional tissue structural
information was available it would help to enhance and accelerate new
advances in tissue engineering, gene discovery and genomics research.
     DESCRIPTION OF DRAWING(S) - A flow diagram of a method for
profiling samples of normal tissue specimens. Each sample profiled is
obtained from a subset of a population of subjects with shared
characteristics and used to generate structural, mechanical and cell
function indices that correspond to statistically significant
representations of characteristics of tissue **associated** with the
population.
     pp; 68 DwgNo 1/11
Title Terms: COMPUTER; DATABASE; TISSUE; TYPE; INFORMATION; ENGINEERING;
  CLASSIFY; TISSUE; COMPRISE; STORAGE; STRUCTURE; MECHANICAL; CELL;
  FUNCTION; INDEX; GENERATE; NORMAL; TISSUE; SPECIMEN
Derwent Class: B04; D16; S03
International Patent Class (Main): G01N-003/00; G01N-033/48; G06F-019/00
International Patent Class (Additional): G01N-033/50; **G06F-007/00** ;
  G06F-012/00; G06F-017/00; G06F-017/60; G06K-009/00
File Segment: CPI; EPI


  **13/5/9     (Item 9 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

01120303     **Image available**
**GLOBAL QUERY CORRELATION ATTRIBUTES**
**ATTRIBUTS GLOBAUX DE CORRELATION DE REQUETE**
Patent Applicant/Assignee:
  INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, Armonk, NY
    10504, US, US (Residence), US (Nationality)
Inventor(s):
  **DETTINGER Richard D** , 5305 Kensington Lane N.W., Rochester, MN 55901, US
    ,
  **STEVENS Richard J** , 61432 252nd Avenue, Mantorville, MN 55955, US
Legal Representative:
  JOHNSON Grant A (et al) (agent), IBM Corporation, Dept. 917/Bldg. 006-1,
    3605 Highway 52 North, Rochester, MN 55901-7829, US,
Patent and Priority Information (Country, Number, Date):
  Patent:           WO 200442617 A1 20040521 (WO 0442617)
  Application:      WO 2003US33137 20031017  (PCT/WO US03033137)
  Priority Application: US 2002285228 20021031
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL
  PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM
  ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
  SI SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30
International Patent Class: **G06F-007/10**
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 9919

English Abstract
  A system, method and article of manufacture for accessing data are
  disclosed. In general, data access is facilitated by a query (202)
  configured with a correlation criterion or criteria (203). The presence
  of the correlation criteria (203) facilitates the introduction of
  additional correlation logic to be applied to conditions of the query
  (204). In general, correlation criteria (203) are contemplated which
  support correlation of entities based on time, physical location and age,
  for example.

French Abstract
  L'invention concerne un systeme, un procede et un produit de fabrication
  permettant d'acceder a des donnees. En general, l'acces aux donnees est
  facilite par une requete (202) comportant un ou des criteres (203) de
  correlation. La presence de ces criteres (203) de correlation facilite
  l'introduction d'une logique de correlation supplementaire a appliquer a
  des conditions de la requete (204). En general, les criteres (203) de
  correlation supportent la correlation d'entites en fonction, par exemple,
  du temps, de l'emplacement physique et de l'age.

Legal Status (Type, Date, Text)
Publication   20040521 A1 With international search report.


   **13/5/10       (Item 10 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

01028474      **Image available**
**METHOD FOR PERFORMING REGISTRATION AUDITS**
**PROCEDE PERMETTANT D'EFFECTUER DES AUDITS D'ENREGISTREMENT**
Patent Applicant/Assignee:
  PERRY L JOHNSON REGISTRARS OF TEXAS L P, 1 Lincoln Center, 5400 LBJ
    Freeway, Suite 445, Dallas, Texas 75240, US, US (Residence), US
    (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  **JOHNSON Perry L** , 297 Canterbury Road, Bloomfield Hills, MI 48304-2919,
    US, US (Residence), US (Nationality), (Designated only for: US
Legal Representative:
  BIR David S (et al) (agent), Brooks & Kushman, 1000 Town Center,
    Twenty-Second Floor, Southfield, MI 48075, US,
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200358426 A1 20030717 (WO 0358426)
  Application:         WO 2001US50028 20011231   (PCT/WO US0150028)
  Priority Application: WO 2001US50028 20011231
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
  RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: **G06F-007/00**
International Patent Class: G06F-017/60
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description

```
Set      Items    Description
S1      191072    QUERY OR QUERIES OR QUERYING? OR INQUIR? OR REQUEST? OR SE-
                  ARCH()STATEMENT?
S2      942743    MAP OR MAPS OR MAPPING OR MAPPED OR LINK? OR ASSOCIAT? OR -
                  CORRELAT?
S3        3041    (PHYSICAL? OR ACTUAL OR REAL)(2N)(FIELD? OR ELEMENT? OR EN-
                  TRY OR ENTRIES)
S4        2492    (LOGICAL? OR VIRTUAL OR CUSTOMI?)(2N)(FIELD? OR ELEMENT? OR
                  ENTRY OR ENTRIES)
S5     2873242    TOOL? OR RUNTIME? OR RUN()TIME? OR COMPONENT? OR MODULE?
S6     2535091    TRANSLAT? OR CONVERT? OR CONVERSION? OR MODIF? OR CHANG?
S7          86    ABSTRACTION()LAYER?
S8           5    S1 AND S2 AND S3 AND S4
S9         171    S1 AND S2 AND (PHYSICAL? OR ACTUAL? OR REAL?) AND (LOGICAL?
                  OR VIRTUAL? OR CUSTOMI?) AND S6
S10         28    S9 AND S5
S11         22    S9 AND (MANNER(2N)REPRESENTATION? OR SCHEMA? OR FORMAT?)
S12          2    (S8 OR S10 OR S11) AND IC=G06F-007?
S13         39    (S8 OR S10 OR S11) AND IC=G06F?
S14         40    S8 OR S12 OR S13
S15         40    IDPAT (sorted in duplicate/non-duplicate order)
S16         40    IDPAT (primary/non-duplicate records only)
S17     175630    DATABASE? OR DATABANK? OR DATA()(BASE? OR BANK? OR FILE?) -
                  OR DBMS OR RDBMS OR RDB? OR DB? OR OODB?
S18     175826    S17 OR DATA()REPOSITOR?
S19       4595    S18 AND S6 AND S1
S20        269    S19 AND (ABSTRACTION? OR VIRTUAL? OR CUSTOMI? OR LOGICAL?)
S21      84227    GLOBAL? OR UNIVERSAL? OR (MULTIPL? OR PLURAL? OR MANY OR S-
                  EVERAL?)(3N)(FORMAT? OR APPLICATION? OR REPRESENTATION? OR SC-
                  HEMA?)
S22         17    S21 AND S20
S23         15    S22 NOT S14
S24         13    S23 AND IC=G06F?
S25         13    IDPAT (sorted in duplicate/non-duplicate order)
S26         13    IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2004/Jan(Updated 040506)
        (c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200435
        (c) 2004  Thomson Derwent
```

014261350     **Image available**
WPI Acc No: 2002-082048/200211
Related WPI Acc No: 1999-580004
XRPX Acc No: N02-061094
  **Graphic user interface method for browsers, involves** translating
  **manipulation of graded representation to** database  query **definition or
  output representation operation parameter for obtaining output** database
  **set**
Patent Assignee: DOUBLEAGENT LLC (DOUB-N)
Inventor: SZABO A J
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 6326962 | B1 | 20011204 | US 96772650 | A | 19961223 | 200211 | B |
| | | | US 99353305 | A | 19990713 | | |

Priority Applications (No Type Date): US 96772650 A 19961223; US 99353305 A
  19990713
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 6326962 | B1 | | 32 | G06F-013/00 | Cont of application US 96772650 |
| | | | | | Cont of patent US 5966126 |

Abstract (Basic): US 6326962 B1
     NOVELTY - A **query** definition or an output representation
operation is graphically represented as a free form text. The graphical
representation has a graded representation portion whose grade of
manipulation is received from the user. The received manipulation of
the graded representation is **translated** into a **database    query**
definition or output representation operation parameter to obtain
output **database** set.
     USE - For browser or search engines in computers for performing
**logical** or set theory operations on data represented by the graphic
object.
     ADVANTAGE - **Several** unique graphical **representations** can be
defined and depicted on the interface either discretely, sequentially
or simultaneously. Thus, allowing user to define an optimal resulting
data subset. Hence less complex rule sets can be defined and
consolidated and the desired information can be analyzed and extracted.

     DESCRIPTION OF DRAWING(S) - The figure shows user interface screen
illustrating multi-criteria search and graphic indicators of search
results.
     pp; 32 DwgNo 7/10
Title Terms: GRAPHIC; USER; INTERFACE; METHOD; **TRANSLATION** ; MANIPULATE;
  GRADE; REPRESENT; **DATABASE** ; **QUERY** ; DEFINE; OUTPUT; REPRESENT; OPERATE
  ; PARAMETER; OBTAIN; OUTPUT; **DATABASE** ; SET
Derwent Class: T01
International Patent Class (Main): **G06F-013/00**
File Segment: EPI

26/5/6      (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

014218041    **Image available**
WPI Acc No: 2002-038739/200205
  **Method for integrating schema using mql**
Patent Assignee: KOREA TELECOM (KOTE-N)
Inventor: HONG Y G; KIM M Y; LEE H S; SONG J W
Number of Countries: 001  Number of Patents: 001
Patent Family:
Patent No      Kind   Date     Applicat No     Kind   Date     Week
KR 2001054560  A     20010702  KR 9955420      A     19991207  200205   B

Priority Applications (No Type Date): KR 9955420 A 19991207
Patent Details:
Patent No  Kind Lan Pg   Main IPC    Filing Notes
KR 2001054560 A       1 G06F-017/00

Abstract (Basic): KR 2001054560 A
      NOVELTY - The method for integrating the schema using the
  MQL(Multidatabase **Query** Language) is provided to integrate various
  **database** of the informal data type as well as to offer rich semantic
  and **abstraction** mechanism by using the schema integration way of the
  object relational model base, and to offer a record medium which can
  read the program of implementing the schema integration way by a
  computer.
      DETAILED DESCRIPTION - A local **database** is registered by using
  the MQL in order to integrate the schema. Each MQL command, concerned
  to the registered local **database** , is performed. A local **database**
  entity is **converted** into a class according to a class creation
  command and the class is created. A **virtual** class is created
  according to a **virtual** class creation command in order to integrate a
  local schema, scattered in the different local **database** , into a
  **global** schema. The MQL command, concerned to the created class and
  **virtual** class, is performed.
      pp; 1 DwgNo 1/10
Title Terms: METHOD; INTEGRATE
Derwent Class: T01
International Patent Class (Main): **G06F-017/00**
File Segment: EPI

26/5/7     (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

012374173    **Image available**
WPI Acc No: 1999-180280/199915
XRPX Acc No: N99-132434
  **Integrated** database **language statement compilation system**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC  )
Inventor: CHOW J; FUH Y; MATTOS N M; TRAN B T
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|-----------|------|------|-------------|------|------|------|---|
| US 5875334 | A | 19990223 | US 95548969 | A | 19951027 | 199915 | B |

Priority Applications (No Type Date): US 95548969 A 19951027
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|----|----------|--------------|
| US 5875334 | A | | 43 | G06F-009/45 | |

Abstract (Basic): US 5875334 A
    NOVELTY - A plan synthesizer (140) synthesizes the output from the
**query** compiler and the control analyzer by merging a code sequence
generated from the control flow information with the executable plan.
    DETAILED DESCRIPTION - A **query** compiler compiles atleast one
declarative part and generates an executable plan. A control analyzer
generates a representation of control flow information of a control
skeleton (103) which comprises a procedural part separated from the
declarative part. An INDEPENDENT CLAIM is also included for the method
of compiling **database** language statement.
    USE - For compiling SQL3 control statements used in field of
**database** information processing for multimedia application.
    ADVANTAGE - Enables and enhances the benefits of procedural
constructs such as performance, control **abstraction** , **global**
optimization and generation of efficient executable plans. Does not
**modify** existing infrastructure of SQL **query** compilers in order to
accommodate control statements. The system is extensible since it
facilitates addition of new functions. Enables efficient execution plan
without special treatment by avoiding redundancy caused by mapping from
procedural semantics to declarative semantics since control skeleton is
not represented in the table oriented QGM. Is easy to implement and has
minimum impact on the existing **query** compiler and no duplicate effort
is undertaken by the compiler in compiling the procedural and
nonprocedural parts of the control statements.
    DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
the compilation system.
    Control skeleton (103)
    Plan synthesizer (140)
    pp; 43 DwgNo 1/26
Title Terms: INTEGRATE; **DATABASE** ; LANGUAGE; STATEMENT; COMPILE; SYSTEM
Derwent Class: T01
International Patent Class (Main): **G06F-009/45**
File Segment: EPI

011536460    **Image available**
WPI Acc No: 1997-512941/199747
XRPX Acc No: N97-426951
   Schema integration method for distributed heterogeneous  databases  -
   involves defining equivalence of objects of normalised schemas which are
   integrated to produce  global  object oriented schema which are then
   converted  into relational form
Patent Assignee: BULL HN INFORMATION SYSTEMS INC (HONE  )
Inventor: FRIESEN O D; GOLSHANI F; HOWELL T H
Number of Countries: 018  Number of Patents: 004
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|-----------|------|------|-------------|------|------|------|---|
| WO 9738388 | A2 | 19971016 | WO 97US5411 | A | 19970320 | 199747 | B |
| WO 9738388 | A3 | 19971120 | WO 97US5411 | A | 19970320 | 199816 | |
| US 5806066 | A | 19980908 | US 96624726 | A | 19960326 | 199843 | |
| EP 1012740 | A2 | 20000628 | EP 97920038 | A | 19970320 | 200035 | |
| | | | WO 97US5411 | A | 19970320 | | |

Priority Applications (No Type Date): US 96624726 A 19960326
Cited Patents: US 5560005; No-SR.Pub
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|-----|----------|--------------|
| WO 9738388 | A2 | E | 52 | G06K-000/00 | |

   Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC
   NL PT SE

| Patent No | Kind | Lan | Main IPC | Filing Notes |
|-----------|------|-----|----------|--------------|
| WO 9738388 | A3 | | G06K-000/00 | |
| US 5806066 | A | | G06F-017/00 | |
| EP 1012740 | A2 | E | G06F-017/00 | Based on patent WO 9738388 |

   Designated States (Regional): DE FR GB IT

Abstract (Basic): WO 9738388 A
     The schema integration method involves obtaining the schema of each
   of the independent  DBSs , and identifying primary keys, foreign keys
   and data dependencies of the schema of each of the two independent
   DBSs . The schemes are  converted  to schemes in object oriented form
   which are normalised.
     The equivalence of objects of the two normalised schemes are
   defined and integrated to produce  global  object oriented schema. The
   schema are then  converted  into relational from SQL commands are
   developed to realise the  global  schema within the DDA as a  virtual
   database  system satisfying all the requirements for accessing data
   from the independent  database  systems.
     USE/ADVANTAGE - Generates and preserves integrated  global  schema
   enabling user to present  queries  against single  global  schema
   without any concern about where data may come from or its physical
   environment. Has intuitive and friendly user interface that assists
   database  designer in pre-integration phase.
     Dwg.1/11
Title Terms: INTEGRATE; METHOD; DISTRIBUTE; HETEROGENEOUS; DEFINE;
   EQUIVALENCE; OBJECT; NORMALISE; INTEGRATE; PRODUCE; GLOBE; OBJECT; ORIENT
   ; CONVERT ; RELATED; FORM
Derwent Class: T01
International Patent Class (Main): G06F-017/00 ; G06K-000/00
International Patent Class (Additional): G06F-017/30
File Segment: EPI

26/5/9     (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

011319758    **Image available**
WPI Acc No: 1997-297662/199727
XRPX Acc No: N97-246013
   FIM system for integrating data from multiple interconnected local
   databases  to provide users with access to virtual   database   - has
   user interface for generating global   query  to search  virtual
   database , DIM that decomposes  global   query  into local   queries , and
   number of LIMs that execute local   queries  to search enumerated
   databases
Patent Assignee: HUGHES AIRCRAFT CO (HUGA  )
Inventor: NOBLE W B; PATEL B K; WANG J K
Number of Countries: 001  Number of Patents: 001
Patent Family:
Patent No    Kind  Date     Applicat No   Kind  Date     Week
US 5634053    A    19970527  US 95521340   A    19950829  199727  B

Priority Applications (No Type Date): US 95521340 A 19950829
Patent Details:
Patent No  Kind Lan Pg   Main IPC     Filing Notes
US 5634053   A     21 G06F-017/30
Abstract (Basic): US 5634053 A
     The  database  controller comprises the user interface for
   generating a  global   query  to search the  virtual    data    base ,
   which has an associated  global  format, the  global   query  including
   at least one data field from a set of commonly used data fields whose
   values are represented in an input format. A smart data dictionary
   (SDD) contains configuration data for each of the local  databases
   including respective local formats for each of the commonly used data
   fields. A selector selects the input format for generating the  global
    query  from one of the  global  and local formats. An input
   translator  converts  the value of the data field in the  global
   query  into local values in the respective local formats.
     The data information manager (DIM) generates local  queries
   including the local values for the data field in response to the
   global   query  and in accordance with the respective configuration
   data. A number of local information managers (LIMs) execute the local
   queries  to search for and retrieve from the respective local
   databases  data that is associated with the local values of the data
   field, the LIMs passing the data back to the dimension where it is
   combined to present the  requesting  user with an integrated response.
   An output  translator  converts  the data passed back from the LIMs
   from their respective local formats into the input format so that the
   data can be combined to present the user with the integrated response.
     ADVANTAGE - Efficiently and truly integrates data from number of
   interconnected and heterogeneous local  databases  to provide user's
   with access to  virtual   database . Better user friendliness.
   Increases completeness of search.
     Dwg.1/11
Title Terms: SYSTEM; INTEGRATE; DATA; MULTIPLE; INTERCONNECT; LOCAL; USER;
  ACCESS; VIRTUAL ;  DATABASE ; USER; INTERFACE; GENERATE; GLOBE; QUERY ;
  SEARCH; VIRTUAL ;  DATABASE ; DIM; DECOMPOSE; GLOBE; QUERY ; LOCAL;
  QUERY ; NUMBER; EXECUTE; LOCAL; QUERY ; SEARCH
Index Terms/Additional Words: DATA_IN FORMATIO N_MAN AGER_LO CAL_INFO
  RMATI ON_MA NAGER ; INFORMATION; MANAGER; LOCAL; INFORMATION; MANAGER
Derwent Class: T01
International Patent Class (Main): G06F-017/30
International Patent Class (Additional): G06F-015/16
File Segment: EPI

03526844      **Image available**
**DATA   BASE** CONTROL SYSTEM

ABSTRACT

PURPOSE: To facilitate the **change** , etc., of a **logical** scheme by adding
the information to identify a **logical** scheme storage storing the **logical**
 schema  corresponding to an optional physical schema as the information to
be stored in the physical schema.
CONSTITUTION: A **logical** schema 2 is retrieved based on the name of the
schema  2 and the **logical** schema storage identification information held
by  a  physical schema 4. Thus it is possible to retrieve the schema 2 from
the  **logical** and  physical  schema  names  owned by each data processing
instruction  even if **plural** **schemata** 2 have the same names and the data
processing **requests** using  these  shemata  2  are produced at one time.
Furthermore  the  data  processing  instructions  using  **plural** **logical**
 **schemata** having the same names are executed at one time.

```
Set      Items    Description
S1     1578788    QUERY OR QUERIES OR QUERYING? OR INQUIR? OR REQUEST? OR SE-
                  ARCH()STATEMENT?
S2    · 864329    MAP OR MAPS OR MAPPING OR MAPPED OR LINK? OR ASSOCIAT? OR -
                  CORRELAT?
S3      10678     (PHYSICAL? OR ACTUAL OR REAL)(2N)(FIELD? OR ELEMENT? OR EN-
                  TRY OR ENTRIES)
S4       4368     (LOGICAL? OR VIRTUAL OR CUSTOMI?)(2N)(FIELD? OR ELEMENT? OR
                  ENTRY OR ENTRIES)
S5     916515     TOOL? OR RUNTIME? OR RUN()TIME? OR COMPONENT? OR MODULE?
S6    1766863     TRANSLAT? OR CONVERT? OR CONVERSION? OR MODIF? OR CHANG?
S7        545     ABSTRACTION()LAYER?
S8          9     S1(10N)S2(10N)S3(10N)S4
S9        332     S1(8N)S2(10N)(PHYSICAL? OR ACTUAL? OR REAL?)(15N)(LOGICAL?
                  OR VIRTUAL? OR CUSTOMI?)(S)S6
S10        29     S1(5N)S2(5N)(PHYSCAL? OR ACTUAL? OR REAL?)(5N)(LOGICAL? OR
                  VIRTUAL? OR CUSTOMI?)(S)S6
S11    198900     DATABASE? OR DATABANK? OR DATA()(BASE? OR BANK? OR REPOSIT-
                  OR?) OR DBMS OR RDBMS OR RDB? OR DB? OR OODB?
S12      3953     S6(10N)S1(10N)S11
S13       121     S12(10N)(ABSTRACTION? OR VIRTUAL? OR CUSTOMI? OR LOGICAL?)
S14         6     S13 AND IC=G06F-007?
S15       126     S6(5N)S1(5N)S11(5N)(ABSTRACT? OR VIRTUAL? OR CUSTOMI? OR L-
                  OGICAL?)
S16         6     S15 AND IC=G06F-007?
S17        21     S15(12N)S2
S18        30     S15(7N)S5
S19         4     (S17 OR S18) AND IC=G06F-007?
S20        41     (S17 OR S18) AND IC=G06F?
S21      2030     S11(4N)(GLOBAL? OR UNIVERSAL? OR (MULTIPL? OR PLURAL OR PL-
                  URALITY OR MANY OR SEVERAL?)(2N)(FORMAT? OR SCHEMA OR SCHEMAS
                  OR REPRESENTATION? OR APPLICATION?))
S22         6     S21(S)S20
S23        17     S21(S)S13
S24        24     S10 AND IC=G06F?
S25        24     S14 OR S16 OR S19 OR S22 OR S23
S26        24     IDPAT (sorted in duplicate/non-duplicate order)
S27        23     IDPAT (primary/non-duplicate records only)
File 348:EUROPEAN PATENTS 1978-2004/Jun W01
         (c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20040603,UT=20040527
         (c) 2004 WIPO/Univentio
```

27/3,K/1      (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

00502931
**DISK ARRAY SYSTEM AND METHOD**
**NETZWERKPLATTENSYSTEM UND METHODE**
**SYSTEME ET METHODE DE PILE DE DISQUES**
PATENT ASSIGNEE:
  EMC CORPORATION, (1739001), 171 South Street, Hopkinton, MA 01748-9103,
    (US), (applicant designated states: DE;FR;GB;IT)
INVENTOR:
  IDLEMAN, Thomas, E., 2660 Brady Court, Santa Clara, CA 95051, (US)
  KOONTZ, Robert, S., 140 Walsh Avenue, Atherton, CA 94025, (US)
  POWERS, David, T., 2265 Bayo Claros Circle, Morgan Hill, CA 95037, (US)
  JAFFE, David, H., 551 South Road, Belmont, CA 94002, (US)
  HENSON, Larry P., 692 Fairlane Avenue, Santa Clara, CA 95051, (US)
  GLIDER, Joseph, S., 3292 Murray Way, Palo Alto, CA 94303, (US)
  GAJJAR, Kumar, 1700 Fan Street, San Jose, CA 95131, (US)
LEGAL REPRESENTATIVE:
  Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)
    , Maximilianstrasse 58, 80538 Munchen, (DE)
PATENT (CC, No, Kind, Date):  EP 517857  A1  921216 (Basic)
                              EP 517857  A1  950607
                              EP 517857  B1  981223
                              WO 9113399  910905
APPLICATION (CC, No, Date):   EP 91907076 910228;  WO 91US1276  910228
PRIORITY (CC, No, Date): US 488749 900302; US 505622 900406; US 506703
    900406; US 601482 901022
DESIGNATED STATES: DE; FR; GB; IT
INTERNATIONAL PATENT CLASS:  **G06F-007/22** ; G06F-011/10; G11B-020/18;
  G06F-011/20
NOTE:
  No A-document published by EPO
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|---|---|---|---|
| CLAIMS B | (English) | 9852 | 918 |
| CLAIMS B | (German) | 9852 | 881 |
| CLAIMS B | (French) | 9852 | 1129 |
| SPEC B | (English) | 9852 | 21325 |
| Total word count – document A | | | 0 |
| Total word count – document B | | | 24253 |
| Total word count – documents A + B | | | 24253 |

INTERNATIONAL PATENT CLASS:  **G06F-007/22** ...

...SPECIFICATION a parallel set, the mapping from unit address to physical
  address spaces must be made. **Mapping**  is a matter of examining the
  configuration **database** to **translate** : (1) from a unit  **logical**
  address span specified in the I/O **request**  to a sequence of data group
  address spans; (2) from the sequence of data group...

00784140
A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR A GLOBALLY ADDRESSABLE
    INTERFACE IN A COMMUNICATION SERVICES PATTERNS ENVIRONMENT
SYSTEME,   PROCEDE   ET   ARTICLE   DE  FABRICATION  S'APPLIQUANT  DANS  UN
    ENVIRONNEMENT  DE  STRUCTURE  DE  SERVICES  DE  COMMUNICATIONS  VIA UNE
    INTERFACE ADRESSABLE GLOBALEMENT
Patent Applicant/Assignee:
  ACCENTURE LLP, 1661 Page Mill Road, Palo Alto, CA 94304, US, US
    (Residence), US (Nationality)
Inventor(s):
  BOWMAN-AMUAH Michel K, 6426 Peak Vista Circle, Colorado Springs, CO 80918
    , US,
Legal Representative:
  HICKMAN Paul L (agent), Oppenheimer Wolff & Donnelly, LLP, 1400 Page Mill
    Road, Palo Alto, CA 94304, US,
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200116735 A2-A3 20010308 (WO 0116735)
  Application:         WO 2000US24198 20000831  (PCT/WO US0024198)
  Priority Application: US 99387214 19990831
Designated States: AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CU CZ DE DK
  DZ EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT
  LU LV MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
  TT UA UG UZ VN YU ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 150371

Fulltext Availability:
  Detailed Description

Detailed Description
...  Figure 88 illustrates the method in which the present invention
  registers and then locates a
   Globally  Addressable Interface;
  Figure 89 illustrates the manner in which the present invention uses a
  Globally...a Generic Message Forwarding feature;
  Figure 185 illustrates a flowchart for a method for batching  logical
  requests  for reducing network
  traffic in accordance with an embodiment of the present invention;
  Figure 186 illustrates the manner in which the present invention sends
  requests  independently; Figure 187 illustrates a manner in which the
  present invention registers  requests ; Figure 188 illustrates a
  flowchart for a method for sorting  requests  that are being unbatched
  from a batched message in accordance with an embodiment of the...

...Ad Hoc Registration feature;
  Figure 190 illustrates a manner in which the present invention sorts
  requests  by weight; Figure 191 illustrates a flowchart for a method for
  assigning independent copies of business data to concurrent  logical
  units of work for helping prevent the logical units of work from
  interfering with each...

...accordance with an embodiment of the present invention;
  Figure 192 illustrates the MVC Implementation with  Global  Model;
  Figure 193 illustrates the Separate Models for Separate Business LUWs;
  Figure 194 illustrates the...required multiple physical transactions. For
  example, in a package or legacy rich environment, the single  logical
  transaction of  changing  a customer address may require the partitioning
  and coordination of several physical transactions to  multiple
  application  systems or  databases . Transaction Partitioning Services

provide the application with a simple single transaction view.
Implementation considerations
Must...is done on the client machine using hidden fields, global
variables, messages, files or local  **databases** .

The popularity of the Internets HTTP protocol has revived the potential
need for implementing some...

```
Set       Items    Description
S1       191072    QUERY OR QUERIES OR QUERYING? OR INQUIR? OR REQUEST? OR SE-
                   ARCH()STATEMENT?
S2       942743    MAP OR MAPS OR MAPPING OR MAPPED OR LINK? OR ASSOCIAT? OR -
                   CORRELAT?
S3         3041    (PHYSICAL? OR ACTUAL OR REAL)(2N)(FIELD? OR ELEMENT? OR EN-
                   TRY OR ENTRIES)
S4         2492    (LOGICAL? OR VIRTUAL OR CUSTOMI?)(2N)(FIELD? OR ELEMENT? OR
                   ENTRY OR ENTRIES)
S5      2873242    TOOL? OR RUNTIME? OR RUN()TIME? OR COMPONENT? OR MODULE?
S6      2535091    TRANSLAT? OR CONVERT? OR CONVERSION? OR MODIF? OR CHANG?
S7           86    ABSTRACTION()LAYER?
S8            5    S1 AND S2 AND S3 AND S4
S9          171    S1 AND S2 AND (PHYSICAL? OR ACTUAL? OR REAL?) AND (LOGICAL?
                   OR VIRTUAL? OR CUSTOMI?) AND S6
S10          28    S9 AND S5
S11          22    S9 AND (MANNER(2N)REPRESENTATION? OR SCHEMA? OR FORMAT?)
S12           2    (S8 OR S10 OR S11) AND IC=G06F-007?
S13          39    (S8 OR S10 OR S11) AND IC=G06F?
S14          40    S8 OR S12 OR S13
S15          40    IDPAT (sorted in duplicate/non-duplicate order)
S16          40    IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2004/Jan(Updated 040506)
         (c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200435
         (c) 2004  Thomson Derwent
```

014366806      **Image available**
WPI Acc No: 2002-187508/200224
XRPX Acc No: N02-142143
   **Segue** component   linked  **to one or more applications in a computer
system and connected to transport medium; parses extracted data, for
converting  it into executable form, and for delivering to target agent's**
   logical  **frame**
Patent Assignee: MISHRA S N (MISH-I)
Inventor: MISHRA S N
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 6345315 | B1 | 20020205 | US 9755558 | P | 19970813 | 200224 | B |
| | | | US 98133772 | A | 19980812 | | |

Priority Applications (No Type Date): US 9755558 P 19970813; US 98133772 A
   19980812
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 6345315 | B1 | | 17 | G06F-009/00 | Provisional application US 9755558 |

Abstract (Basic): US 6345315 B1
       NOVELTY - Applications (22,32) always deliver a preformed  **logical**
   frame to segue  **component**  (40) for  **conversion**  into a  **physical**
   frame. Likewise, the segue  **component**  (40) always delivers a preformed
   **logical**  frame to the application (22,32) after the data is extracted
   and parsed from the incoming  **physical**  frame and has been  **converted**
   into a  **logical**  frame usable by the respective application.
       DETAILED DESCRIPTION - The  **logical**  frame reveals a name field
   (43) and a value field (44)  **associated**  with the  **requested**  operation
   (42). The user  **requested**  an operation (42) bearing the name 'FOO'
   (43) which has a value (44) of 'WXYZ'. This data is collected by the
   segue  **component**  (40) and, if no  **changes**  or further interaction
   follows, the segue  **component**  (40)  **converts**  the data from Unicode
   into byte-oriented data and packages it into the appropriate fields of
   the  **physical**  frame. The applications (22), (32) always receive from
   and deliver to the segue  **component**  (40) a preformed  **logical**  frame.
       An INDEPENDENT CLAIM is included for:
       (a) a method for transporting data in a platform independent and
   protocol independent manner between one or more clients of a computer
   system and one or more servers of a computer system
       USE - As platform- and protocol-independent communication for
   access to printer, scanner, telephone, FAX, camera, microphone, audio
   system, machine  **tools** , alarm system, monitoring system, or other
   similar device, system, or appliance.
       ADVANTAGE - Creates a protocol-independent communication and
   hardware-independent software at both ends.
       DESCRIPTION OF DRAWING(S) - The drawing illustrates the structure
   of the  **logical**  frame and the  **physical**  frame of the present
   invention.
       applications (22,32)
       segue  **component**  (40)
       **requested**  operation (42)
       name field (43)
       value field (44)
       pp; 17 DwgNo 10/15
Title Terms:  **COMPONENT** ;  **LINK** ; ONE; MORE; APPLY; COMPUTER; SYSTEM;
   CONNECT; TRANSPORT; MEDIUM; EXTRACT; DATA;  **CONVERT** ; EXECUTE; FORM;
   DELIVER; TARGET; AGENT; LOGIC; FRAME
Derwent Class: T01
International Patent Class (Main):  **G06F-009/00**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013905373    **Image available**
WPI Acc No: 2001-389586/200141
XRPX Acc No: N01-286593
   Customized **data rendering method e.g. for hypertext markup language,
   involves retrieving current value of data element from source and**
   translating **using pre selected language** translator
Patent Assignee: EVERYPATH INC (EVER-N)
Inventor: GOEL P; IYER P; KROTHAPALLI P; MAK R; MOHINDRA R; SINHA A; VITTAL
   S
Number of Countries: 091  Number of Patents: 006
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|-----------|------|------|-------------|------|------|------|---|
| WO 200118692 | A2 | 20010315 | WO 2000US24546 | A | 20000906 | 200141 | B |
| AU 200073552 | A | 20010410 | AU 200073552 | A | 20000906 | 200142 | |
| KR 2002042831 | A | 20020607 | KR 2002703231 | A | 20020311 | 200278 | |
| EP 1344149 | A2 | 20030917 | EP 2000961628 | A | 20000906 | 200362 | |
| | | | WO 2000US24546 | A | 20000906 | | |
| JP 2003532129 | W | 20031028 | WO 2000US24546 | A | 20000906 | 200373 | |
| | | | JP 2001522435 | A | 20000906 | | |
| CN 1461445 | A | 20031210 | CN 2000814425 | A | 20000906 | 200415 | |

Priority Applications (No Type Date): US 99393133 A 19990910
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|-----|----------|--------------|
| WO 200118692 | A2 | E | 31 | G06F-017/30 | |

   Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
   CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
   KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
   SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
   Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
   IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

| | | | | | |
|---|---|---|---|---|---|
| AU 200073552 | A | | | G06F-017/30 | Based on patent WO 200118692 |
| KR 2002042831 | A | | | G06F-017/30 | |
| EP 1344149 | A2 | E | | G06F-017/30 | Based on patent WO 200118692 |

   Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
   LI LT LU LV MC MK NL PT RO SE SI

| | | | | | |
|---|---|---|---|---|---|
| JP 2003532129 | W | | 35 | G10L-013/06 | Based on patent WO 200118692 |
| CN 1461445 | A | | | G06F-017/30 | |

Abstract (Basic): WO 200118692 A2
     NOVELTY - Signature is retrieved from source data memory in
response to **query** from a user. Current value of data element
designated by the signature, is retrieved from the source. The current
value is **translated** through pre selected language **translator** (20)
and output to the user.
     DETAILED DESCRIPTION - The pre selected language **translator** used
for **translating** the current value of the data element, is a text to
speech **translator** or a set of stored aural expressions **mapped** to
pre selected values for each of the data element. INDEPENDENT CLAIMS
are also included for the following:
     (a) System for rendering representation of two-dimensional data;
     (b) Program product;
     (c) Method for providing interactive user access to web page
information
     USE - For rendering **customized** two-dimensional data such as data
in hypertext markup language, in different **formats** including aural
and limited visual **formats** .
     ADVANTAGE - HTML pages can be represented by regular expressions.
Permits values to be dynamically updated and rendered with the current
value, since only data elements need to be selected and the **actual**
values need not be selected.
     DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
system for retrieving information from HTML page.
     **Translator** (20)
     pp; 31 DwgNo 1/2

Title Terms: **CUSTOMISATION** ; DATA; RENDER; METHOD; LANGUAGE; RETRIEVAL;
CURRENT; VALUE; DATA; ELEMENT; SOURCE; **TRANSLATION** ; PRE; SELECT;
LANGUAGE; **TRANSLATION**
Derwent Class: P86; T01
International Patent Class (Main): **G06F-017/30** ; G10L-013/06
International Patent Class (Additional): **G06F-017/21** ; **G06F-017/24** ;
G10L-013/00; G10L-013/08
File Segment: EPI; EngPI

011843968    **Image available**
WPI Acc No: 1998-260878/199823
XRPX Acc No: N98-205705
   Database generic composite structure processing system - includes
   optimising process unit which evaluates cost of access which uses global
   index information based on definition information
Patent Assignee: FUJITSU LTD (FUIT  )
Inventor: HAYASHI K; HAYASHI T; ISHII T; MITANI M; OBATA T; OHSATO H;
   SAITOU K; SEKINE Y; URA M
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 5742809 | A | 19980421 | US 91745258 | A | 19910814 | 199823 | B |
| | | | US 95427713 | A | 19950421 | | |
| | | | US 97899150 | A | 19970723 | | |

Priority Applications (No Type Date): JP 90231450 A 19900831; JP 90231448 A
   19900831
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 5742809 | A | | 25 | G06F-017/30 | Cont of application US 91745258 |
| | | | | | Cont of application US 95427713 |

Abstract (Basic): US 5742809 A
       The system includes a unit (10) for generating a generic composite
   structure definition between multiple logical structure and multiple
   composite structure using any one of the mappings such as simple
   mapping , multiple mapping , column selection mapping  or overlapping
    mapping . An optimising process unit (12) modifies a query (11)
   written in the logical structure according to the generic composite
   structure and generates an access schedule based on the modified
   query .
       Based on the access schedule an executable module  is generated. A
   memory stores the data expressed by the logical structure into
   multiple composite structure each of which has an independent data
   organisation. A dictionary stores the definition information of an
   index as a global index information. The optimising process unit
   evaluates the cost of access which uses the global index information
   based on definition information stored in the dictionary and an access
   which does not use the global index information.
       ADVANTAGE - Improves retrieval efficiency of composite structure.
   Performs efficient operation. Generates optimum database according to
   data characteristics easily. Realizes highly independent storage
   structure.
       Dwg.3/15
Title Terms: DATABASE; COMPOSITE; STRUCTURE; PROCESS; SYSTEM; OPTIMUM;
   PROCESS; UNIT; EVALUATE; COST; ACCESS; GLOBE; INDEX; INFORMATION; BASED;
   DEFINE; INFORMATION
Derwent Class: T01
International Patent Class (Main): G06F-017/30
File Segment: EPI

16/5/18     (Item 18 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011813263     **Image available**
WPI Acc No: 1998-230173/199820
XRPX Acc No: N98-182323
  **CASE-based relational database access consistency system - includes
  logical to physical data mapping and join tables with queries
  formed using data mapping and join criteria tables**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC  )
Inventor: KINGBERG D G; MARTIN W J; MCCUBBIN E M
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|-----------|------|------|-------------|------|------|------|---|
| US 5734887 | A | 19980331 | US 95536737 | A | 19950929 | 199820 | B |

Priority Applications (No Type Date): US 95536737 A 19950929
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|-----|----------|--------------|
| US 5734887 | A | | 50 | G06F-017/30 | |

Abstract (Basic): US 5734887 A
     The database access system includes one or more applications having
a **logical** data access interface for **requesting** data access
according to a **logical** data model. The data model has numerous
interrelated **logical** entity types each with numerous **logical**
attributes. A RDBMS contains numerous **physical** tables derived from
the **logical** data model, each having numerous columns. A **logical** to
**physical** data **mapping** table **maps** each **logical** entity type and
**logical** attribute pair to a **physical** table name and a **physical**
column name as stored in the RDBMS.
     A join table has a join **entry** for each **logical** entity type
represented by more than one **physical** table in the RDBMS. Each join
**entry** identifies the **physical** tables and columns to join, and the
join criteria necessary to form the **logical** entity type represented
by the join **entry** . A **logical** data access **module** receives a
**logical** database **request** from a **requesting** application via it's
**logical** data interface. One or more database **queries** having
**physical** table and **physical** column names are formed using the
**logical** to **physical** data **mapping** and join criteria tables.
     ADVANTAGE - Allows **change** in **physical** structure of database
tables without **changing** client applications. Allows DBA to tune
database without **changing** client applications. Application can update
views without knowing **physical** table names used in constructing view.
Permits re-engineering database for maximum performance without
**modifying** applications. Provides **logical** views without knowing join
criteria.
     Dwg.3/16
Title Terms: CASE; BASED; RELATED; DATABASE; ACCESS; CONSISTENCY; SYSTEM;
  LOGIC; **PHYSICAL** ; DATA; **MAP** ; JOIN; TABLE; **QUERY** ; FORMING; DATA; **MAP**
  ; JOIN; CRITERIA; TABLE
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

011200824     **Image available**
WPI Acc No: 1997-178749/199716
Related WPI Acc No: 1998-120257
XRPX Acc No: N97-147404
  **Multi-model DBMS engine for complex data model database - has user
  application and application program interface, database server,** schema
  **for** translating **data** format **into data model** format **comprising owner
  records and member records,** linked **by dynamic pointer arrays**
Patent Assignee: MICRO DATA BASE SYSTEMS INC (MICR-N)
Inventor: DURFLINGER K; LOGAN K M; REID J D
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|-----------|------|------|-------------|------|------|------|---|
| US 5611076 | A | 19970311 | US 94309909 | A | 19940921 | 199716 | B |

Priority Applications (No Type Date): US 94309909 A 19940921
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|-----|----------|--------------|
| US 5611076 | A | | 43 | G06F-017/30 | |

Abstract (Basic): US 5611076 A
    The multi-model database management system (DBMS) presents to its
users a variety of **logical** models, or views of stored data, using
industry-standard interfaces, while the **physical** storage of data is
managed in a manner that closely follows the data model. Databases are
built from sets of records using the entity-relationship data model.
    Space is reserved in each owner record for a set pointer pointing
to either a member record or a Dynamic Pointer Array (DPA) structure
that relates the owner record to member records. The DPA itself
contains set pointers to all of the related member records.
    Each member record, in turn, has a set pointer pointing back to a
particular owner record, or, in certain instances, to another DPA. In
such cases, the DPA contains set pointers pointing to all of the
related owner records. The DBMS supports a variety of **logical** models
including the relational model, and further supports industry-standard
Application Program Interfaces using SQL **query** access language.
    ADVANTAGE - Stores complex data according to entity-relationship
data model. Efficient **physical** storage of data relationships.
    Dwg.20/27
Title Terms: MULTI; MODEL; ENGINE; COMPLEX; DATA; MODEL; DATABASE; USER;
  APPLY; APPLY; PROGRAM; INTERFACE; DATABASE; SERVE; **TRANSLATION** ; DATA;
  **FORMAT** ; DATA; MODEL; **FORMAT** ; COMPRISE; OWNER; RECORD; MEMBER; RECORD;
  **LINK** ; DYNAMIC; POINT; ARRAY
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
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009730239    **Image available**
WPI Acc No: 1994-010089/199402
Related WPI Acc No: 1999-083811; 2000-368077; 2000-424820
XRPX Acc No: N94-008113
   **Storing data of compound document in e.g. word processor - involves
   accessing document using functions of layer which  maps   requests   to
   store data to storage  format**
Patent Assignee: MICROSOFT CORP (MICT  )
Inventor: ATKINSON R G; BLISS A L; LAFORNARA P J; LJUBICICH P; TILLES A G;
   WILLIAMS A S
Number of Countries: 020  Number of Patents: 014
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 578204 | A2 | 19940112 | EP 93110796 | A | 19930706 | 199402 | B |
| CA 2099911 | A | 19940107 | CA 2099911 | A | 19930706 | 199412 | |
| EP 578204 | A3 | 19940324 | | | | 199521 | |
| US 5506983 | A | 19960409 | US 92909533 | A | 19920706 | 199620 | |
| US 5706504 | A | 19980106 | US 92909533 | A | 19920706 | 199808 | |
| | | | US 95477925 | A | 19950607 | | |
| US 5715441 | A | 19980203 | US 92909533 | A | 19920706 | 199812 | |
| | | | US 95474100 | A | 19950607 | | |
| EP 578204 | B1 | 19990414 | EP 93110796 | A | 19930706 | 199919 | |
| | | | EP 98118766 | A | 19930706 | | |
| DE 6920324410 | E | 19990520 | DE 93624410 | A | 19930706 | 199926 | |
| | | | EP 93110796 | A | 19930706 | | |
| CA 2320674 | A1 | 19940107 | CA 2099911 | A | 19930706 | 200103 | |
| | | | CA 2320674 | A | 19930706 | | |
| CA 2320675 | A1 | 19940107 | CA 2099911 | A | 19930706 | 200103 | |
| | | | CA 2320675 | A | 19930706 | | |
| CA 2099911 | C | 20011127 | CA 2099911 | A | 19930706 | 200202 | |
| KR 287046 | B | 20010416 | KR 9312824 | A | 19930706 | 200219 | |
| CA 2320675 | C | 20040413 | CA 2099911 | A | 19930706 | 200426 | |
| | | | CA 2320675 | A | 19930706 | | |
| CA 2320674 | C | 20040427 | CA 2099911 | A | 19930706 | 200430 | |
| | | | CA 2320674 | A | 19930706 | | |

Priority Applications (No Type Date): US 92909533 A 19920706; US 95477925 A
   19950607; US 95474100 A 19950607
Cited Patents: No-SR.Pub; 3.Jnl.Ref; US 5093779
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 578204 | A2 | E | 33 | G06F-015/413 | |

   Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
   NL PT SE

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| CA 2099911 | A | | | G06F-013/38 | |
| US 5506983 | A | | 27 | G06F-017/30 | |
| US 5706504 | A | | 28 | G06F-012/02 | Div ex application US 92909533 |
| | | | | | Div ex patent US 5506983 |
| US 5715441 | A | | 27 | G06F-017/30 | Div ex application US 92909533 |
| | | | | | Div ex patent US 5506983 |
| EP 578204 | B1 | E | | G06F-017/00 | Related to application EP 98118766 |
| | | | | | Related to patent EP 892355 |

   Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
   NL PT SE

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| DE 6920324410 | E | | | G06F-017/00 | Based on patent EP 578204 |
| CA 2320674 | A1 | E | | G11C-007/00 | Div ex application CA 2099911 |
| CA 2320675 | A1 | E | | G11C-007/00 | Div ex application CA 2099911 |
| CA 2099911 | C | E | | G06F-013/38 | |
| KR 287046 | B | | | G06F-009/24 | |
| CA 2320675 | C | E | | G11C-007/00 | Div ex application CA 2099911 |
| CA 2320674 | C | E | | G11C-007/00 | Div ex application CA 2099911 |

Abstract (Basic): EP 578204 A
           The method for storing the data of a compound document involves

storing data which is **logically** contiguous in several **physically** non-contiguous areas on a storage device. Header information which has a pointer to a doubly indirect file allocation table is stored.

A doubly indirect file allocation table pointing to a file allocation table is stored. A file allocation table which **links physically** non-contiguous areas in a **logically** contiguous manner is stored.

ADVANTAGE - Efficient layout organisation. Can be used on arbitrary storage medium.

Dwg.1/18

Title Terms: STORAGE; DATA; COMPOUND; DOCUMENT; WORD; PROCESSOR; ACCESS; DOCUMENT; FUNCTION; LAYER; **MAP** ; **REQUEST** ; STORAGE; DATA; STORAGE; **FORMAT**

Derwent Class: T01

International Patent Class (Main): **G06F-009/24** ; **G06F-012/02** ; **G06F-013/38** ; **G06F-015/413** ; **G06F-017/00** ; **G06F-017/30** ; G11C-007/00

International Patent Class (Additional): **G06F-007/02** ; **G06F-015/403**

File Segment: EPI

07828951     **Image available**
DYNAMIC END USER SPECIFIC **CUSTOMIZATION** OF APPLICATION'S **PHYSICAL** DATA
LAYER THROUGH DATA REPOSITORY ABSTRACTION LAYER

PUB. NO.:      2003-323324  [JP 2003323324  A]
PUBLISHED:     November 14, 2003 (20031114)
INVENTOR(s):   DETTINGER RICHARD DEAN
               STEVENS RICHARD JOSEPH
APPLICANT(s):  INTERNATL BUSINESS MACH CORP (IBM)
APPL. NO.:     2003-117893  [JP 2003117893]
FILED:         April 23, 2003 (20030423)
PRIORITY:      02 132228 [US 2002132228], US (United States of America),
               April 25, 2002 (20020425)
INTL CLASS:    G06F-012/00

ABSTRACT
PROBLEM TO BE SOLVED: To provide a system, a method, and an article of
manufacture for independently providing access to data from a specific
shape of **physically** expressing the data.

SOLUTION: One embodiment provides different **logical** views of a data
repository being the same basis by a plurality of data repository
abstraction. A plurality of respective data repository abstraction can be
**associated** to different users, and different data sets are thereby
disclosed to the respective users. A **run** **time** **component** **converts** an
abstract **inquiry** into a shape usable for specific **physical** data
expression.

*bad date*

*Same assignee*

```
Set      Items    Description
S1       6999     QUERY OR QUERIES OR QUERYING? OR INQUIR? OR REQUEST? OR SE-
                  ARCH()STATEMENT?
S2       23860    MAP OR MAPS OR MAPPING OR MAPPED OR LINK? OR ASSOCIAT? OR -
                  CORRELAT?
S3       57       (PHYSICAL? OR ACTUAL OR REAL)(2N)(FIELD? OR ELEMENT? OR EN-
                  TRY OR ENTRIES)
S4       173      (LOGICAL? OR VIRTUAL OR CUSTOMI?)(2N)(FIELD? OR ELEMENT? OR
                  ENTRY OR ENTRIES)
S5       47569    TOOL? OR RUNTIME? OR RUN()TIME? OR COMPONENT? OR MODULE?
S6       19445    TRANSLAT? OR CONVERT? OR CONVERSION? OR MODIF? OR CHANG?
S7       60       ABSTRACTION()LAYER?
S8       0        S1 (10N) S2 (10N) S3 (10N) S4
S9       1        S1 (10N) S2 (10N) (PHYSICAL? OR ACTUAL? OR REAL?) (10N) (L-
                  OGICAL? OR VIRTUAL? OR CUSTOMI?) AND S6
S10      1        S9 (S) S5
S11      1        S2 (S) S3 (S) S4
S12      0        S3 (10N) S4 (10N) S5 (10N) (S6 OR S7)
S13      19692    DATABASE? OR DATABANK? OR DATA()(BASE? OR BANK? OR REPOSIT-
                  OR?) OR DBMS OR DB OR DBS OR OODB OR OODBS OR RDB?
S14      119      S6 (10N) S13 (10N) S1
S15      0        S14 AND (S3 OR S4)
S16      0        S14 AND S5 AND S7
S17      62       S14 AND S5
S18      17       S17 AND S2
S19      19       S18 OR S9 OR S10 OR S11
S20      19       S19 NOT PD>20020226
S21      19       S20 NOT PY>2002
File 256:SoftBase:Reviews,Companies&Prods. 82-2004/May
         (c)2004 Info.Sources Inc
```

00096279          DOCUMENT TYPE:  Review

**PRODUCT NAMES**: **NetScheme InterMart**  Toolkit  **1.0**  (643441

**TITLE**:  **NetScheme serves data to Web**
AUTHOR:  Shankar, Gess
SOURCE:  InfoWorld,      v18 n43  pIW/1(2) Oct 21, 1996
ISSN: 0199-6649
HOMEPAGE:  http://www.infoworld.com

RECORD TYPE:  Review
REVIEW TYPE:  Review
GRADE:  A

REVISION DATE:  20000430

**PRODUCT NAMES**:  **NetScheme InterMart**  Toolkit  **1.0**...

NetScheme Solutions' NetScheme InterMart  **Toolkit**  1.0 presents a one-stop
solution for making back-end data available to intranet...

...opposed to database terms. The kit includes a set of Wizards for
creating relationships and  **links** . There are three major  **components** : the
Modeler, for developing the navigation model; the Web Page Designer, for
customizing Web pages; and the Navigation Server, which runs as a Windows
NT service and interacts with the  **RDBMS** . This is where  **requests**  from
the Web browser are  **converted**  to SQL  **queries** .

```
Set      Items    Description
S1     2864983    QUERY OR QUERIES OR QUERYING? OR INQUIR? OR REQUEST? OR SE-
                  ARCH()STATEMENT?
S2    10143052    MAP OR MAPS OR MAPPING OR MAPPED OR LINK? OR ASSOCIAT? OR -
                  CORRELAT?
S3      27260     (PHYSICAL? OR ACTUAL OR REAL)(2N)(FIELD? OR ELEMENT? OR EN-
                  TRY OR ENTRIES)
S4      11714     (LOGICAL? OR VIRTUAL OR CUSTOMI?)(2N)(FIELD? OR ELEMENT? OR
                  ENTRY OR ENTRIES)
S5     6110312    TOOL? OR RUNTIME? OR RUN()TIME? OR COMPONENT? OR MODULE?
S6    11335492    TRANSLAT? OR CONVERT? OR CONVERSION? OR MODIF? OR CHANG?
S7       2647     ABSTRACTION()LAYER?
S8          2     S1 (10N) S2 (10N) S3 (10N) S4
S9        272     S1 (10N) S2 (10N) (PHYSICAL? OR ACTUAL? OR REAL?) (10N) (L-
                  OGICAL? OR VIRTUAL? OR CUSTOMI?) AND S6
S10       103     S9 (S) S5
S11        35     S2 (S) S3 (S) S4
S12         4     S3 (10N) S4 (10N) S5 (10N) (S6 OR S7)
S13     2432153   DATABASE? OR DATABANK? OR DATA()(BASE? OR BANK? OR REPOSIT-
                  OR?) OR DBMS OR DB OR DBS OR OODB OR OODBS OR RDB?
S14      7845     S6 (10N) S13 (10N) S1
S15        23     S14 (S) (S3 OR S4)
S16         6     S14 (S) S5 (S) S7
S17         0     S10(S)S7
S18         2     S10(S)(S3 OR S4)
S19        68     S8 OR S11 OR S12 OR S15 OR S16 OR S18
S20        44     RD (unique items)
S21        35     S20 NOT PY>2001
S22        34     S21 NOT PD=20010226:20040609
File 275:Gale Group Computer DB(TM) 1983-2004/Jun 09
         (c) 2004 The Gale Group
File  47:Gale Group Magazine DB(TM) 1959-2004/Jun 03
         (c) 2004 The Gale group
File  75:TGG Management Contents(R) 86-2004/May W5
         (c) 2004 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2004/Jun 08
         (c) 2004 The Gale Group
File  16:Gale Group PROMT(R) 1990-2004/Jun 09
         (c) 2004 The Gale Group
File 624:McGraw-Hill Publications 1985-2004/Jun 09
         (c) 2004 McGraw-Hill Co. Inc
File 484:Periodical Abs Plustext 1986-2004/May W5
         (c) 2004 ProQuest
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 141:Readers Guide 1983-2004/Jun
         (c) 2004 The HW Wilson Co
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Jun 07
         (c) 2004 The Gale Group
File 674:Computer News Fulltext 1989-2004/May W5
         (c) 2004 IDG Communications
File 369:New Scientist 1994-2004/May W5
         (c) 2004 Reed Business Information Ltd.
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 635:Business Dateline(R) 1985-2004/Jun 08
         (c) 2004 ProQuest Info&Learning
File  15:ABI/Inform(R) 1971-2004/Jun 08
         (c) 2004 ProQuest Info&Learning
File   9:Business & Industry(R) Jul/1994-2004/Jun 08
         (c) 2004  The Gale Group
File  13:BAMP 2004/May W3
         (c) 2004  The Gale Group
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 647:CMP  Computer Fulltext 1988-2004/May W5
         (c) 2004 CMP Media, LLC
File  98:General Sci Abs/Full-Text 1984-2004/Jun
```

01785104      SUPPLIER NUMBER: 16898033      (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Esperant. (Software AG of North America Inc)(one of seven evaluations of**
**Structured Query Language tools in "SQL Query and Reporting Tools**
**Straight Answers Limited Risks") (Software Review)(Evaluation)**
Eoff, James L.
PC Magazine, v14, n11, p230(2)
June 13, 1995
DOCUMENT TYPE: Evaluation      ISSN: 0888-8507      LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT:   1112     LINE COUNT:   00091

...     concept behind Software AG's Esperant 2.1 is compelling: a powerful
English-language query  **tool** 'that sits on top of a sophisticated database
**abstraction    layer**>. End users work exclusively with familiar business
entities while the product hides the nitty-gritty of relational data and
protects them from the many traps that SQL syntax offers. The  **query    tool**
 takes simple English-like commands and  **converts**   them into complex,         '
**database** -specific SQL.
     The current release, which is Esperant's first despite the 2.x version
...

01681086      SUPPLIER NUMBER: 15353016      (USE FORMAT 7 OR 9 FOR FULL TEXT)
**DOD legacy systems; reverse engineering data requirements. (excerpt from
   paper presented at the May 1993 Association of Computing Machinery/IEEE
   Computer Society's Working Conference on Reverse Engineering)**
Aiken, Peter; Muntz, Alice; Richards, Russ
Communications of the ACM, v37, n5, p26(16)
May, 1994
ISSN: 0001-0782      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT:   6060    LINE COUNT:   00530

...      design dictionary contains physical structures and related
information.
       To enhance traceability, physical evidence obtained is  **linked**  in an
Information Resource Catalog (IRC) database. The IRC contains sources of
information relevant to...

...stored in filing cabinets. The traceability matrix is used to identify
and/or trace the  **correlation**  of items contained in the various models and
document the satisfaction of business requirements and...

...in the encyclopedia are also loaded into the IRC. The IRC also permits
users to **link**  **physical**  evidence to the data model with an interface
that users can use to **query**  the contents of IRC, the data modeling
status, and **linkage** between **physical**  **elements** , **logical**  entities,
and business requirements and rules.
       Lessons learned Management Issues
       Getting formal commitment and authorization

```
Set      Items      Description
S1      315737     QUERY OR QUERIES OR QUERYING? OR INQUIR? OR REQUEST? OR SE-
                   ARCH()STATEMENT?
S2      7051018    MAP OR MAPS OR MAPPING OR MAPPED OR LINK? OR ASSOCIAT? OR -
                   CORRELAT?
S3       32006     (PHYSICAL? OR ACTUAL OR REAL)(2N)(FIELD? OR ELEMENT? OR EN-
                   TRY OR ENTRIES)
S4        4139     (LOGICAL? OR VIRTUAL OR CUSTOMI?)(2N)(FIELD? OR ELEMENT? OR
                   ENTRY OR ENTRIES)
S5      3904813    TOOL? OR RUNTIME? OR RUN()TIME? OR COMPONENT? OR MODULE?
S6      7336798    TRANSLAT? OR CONVERT? OR CONVERSION? OR MODIF? OR CHANG?
S7         275     ABSTRACTION()LAYER?
S8           0     S1 AND S2 AND S3 AND S4
S9         175     S1 AND S2 AND (PHYSICAL? OR ACTUAL? OR REAL?) AND (LOGICAL?
                   OR VIRTUAL? OR CUSTOMI?) AND S6
S10         31     S9 AND S5
S11         30     S2 AND S3 AND S4
S12         17     S3 AND S4 AND S5 AND (S6 OR S7)
S13     906683     DATABASE? OR DATABANK? OR DATA()(BASE? OR BANK? OR REPOSIT-
                   OR?) OR DBMS OR DB OR DBS OR OODB OR OODBS OR RDB?
S14       9892     S6 AND S13 AND S1
S15         13     S14 AND (S3 OR S4)
S16          2     S14 AND S5 AND S7
S17          8     S11 AND S5
S18          0     S11 AND S7
S19         68     S10 OR S12 OR S15 OR S16 OR S17
S20         55     RD (unique items)
S21         50     S20 NOT PY>2002
S22         50     S21 NOT PD=20020226:20050619
File    8:Ei Compendex(R) 1970-2004/May W5
          (c) 2004 Elsevier Eng.  Info. Inc.
File   35:Dissertation Abs Online 1861-2004/May
          (c) 2004 ProQuest Info&Learning
File  202:Info. Sci. & Tech. Abs. 1966-2004/May 14
          (c) 2004 EBSCO Publishing
File   65:Inside Conferences 1993-2004/Jun W1
          (c) 2004 BLDSC all rts. reserv.
File    2:INSPEC 1969-2004/May W5
          (c) 2004 Institution of Electrical Engineers
File   94:JICST-EPlus 1985-2004/May W3
          (c)2004 Japan Science and Tech Corp(JST)
File  111:TGG Natl.Newspaper Index(SM) 1979-2004/Jun 09
          (c) 2004 The Gale Group
File  233:Internet & Personal Comp. Abs. 1981-2003/Sep
          (c) 2003 EBSCO Pub.
File    6:NTIS 1964-2004/Jun W1
          (c) 2004 NTIS, Intl Cpyrght All Rights Res
File  144:Pascal 1973-2004/May W5
          (c) 2004 INIST/CNRS
File  434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
          (c) 1998 Inst for Sci Info
File   34:SciSearch(R) Cited Ref Sci 1990-2004/May W5
          (c) 2004 Inst for Sci Info
File   99:Wilson Appl. Sci & Tech Abs 1983-2004/May
          (c) 2004 The HW Wilson Co.
```

22/5/5      (Item 5 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)

05644469   E.I. No: EIP00095307232
**Title: Watermaking while preserving the critical path**
Author: Meguerdichian, Seapahn; Potkonjak, Miodrag
Corporate Source: Univ of California, Los Angeles, CA, USA
Conference Title: DAC 2000: 37th Design Automation Conference
Conference   Location:   Los   Angeles,   CA,   USA   Conference   Date:
19000605-19000609
Sponsor: ACM/SIGDA; IEEE; EDAC; General
E.I. Conference No.: 57166
Source:   Proceedings   -   Design   Automation   Conference   2000.   IEEE,
Piscataway, NJ, USA. p 108-111
Publication Year: 2000
CODEN: PDAWDJ   ISSN: 0738-100X
Language: English
Document Type: CA; (Conference Article)   Treatment: T; (Theoretical)
Journal Announcement: 0010W2

Abstract: In many modern designs, timing is either a key optimization
goal and/or a mandatory constraint. We propose the first intellectual
property protection technique using watermarking that guarantees
preservation of timing constraints by judiciously selecting parts of the
design specification on which watermarking constraints can be imposed. The
technique is applied during the **mapping of logical elements** to
instances of realization **elements** in a **physical** library. The generic
technique is applied to two steps in the design process: combinational
logic **mapping** in logic synthesis and template matching in behavioral
synthesis. The technique is fully transparent to the synthesis process, and
can be used in conjunction with arbitrary synthesis **tools** . Several
optimization problems **associated** with the application of the technique
have been solved. The effectiveness of the technique is demonstrated on a
number of designs at both logic synthesis and behavioral synthesis. (Author
abstract) 17 Refs.
Descriptors: *Logic design; Intellectual property; Combinatorial circuits
; Pattern matching; Security of data; Cryptography; Algorithms;
Optimization
Identifiers: Watermarking; Critical path; Template matching; Logic
synthesis
Classification Codes:
721.2  (Logic Elements); 902.3  (Legal Aspects); 723.5  (Computer
Applications); 723.2  (Data Processing); 723.1  (Computer Programming);
921.5  (Optimization Techniques)
721  (Computer Circuits & Logic Elements); 902  (Engineering Graphics &
Standards); 723  (Computer Software); 921  (Applied Mathematics)
72  (COMPUTERS & DATA PROCESSING); 90  (GENERAL ENGINEERING); 92
(ENGINEERING MATHEMATICS)

05100874   E.I. No: EIP98084347147
  **Title: Information visualization on the Web**
  Author: Jern, Mikael
  Corporate Source: Advanced Visual Systems, Birkeroed, Den
  Conference  Title:  Proceedings  of  the 1998 International Conference on
Information Visualization, IV
  Conference Location: London, UK    Conference Date: 19980729-19980731
  Sponsor: IEEE
  E.I. Conference No.: 48810
  Source:  Proceedings  of  the IEEE Symposium on Information Visualization
1998. IEEE, Piscataway, NJ, USA,98TB100246. p 2-7
  Publication Year: 1998
  CODEN: 002219
  Language: English
  Document Type: CA; (Conference Article)    Treatment: T; (Theoretical)
  Journal Announcement: 9810W3

  Abstract: A thin client, by definition, have minimal software
requirements necessary to function as a user interface front-end for a Web
enabled application and raises the issue of client vs. server data
visualization rendering.  **Real** -time visual data manipulation doesn't
**translate**  well into a `thin' client. While the VRML file format allows
distribution of visualization scenes to the Web, the user has no access to
the  **actual**  underlying data source. The ` **mapping** ' of numerical data into
geometry format (VRML) takes place at the server side. Local data
manipulation, information drill-down technique, context sensitive menus,
object picking and other interactive user interface functions that
traditionally have been available on the client are now controlled by the
visualization server. In the `thin' client model, nearly all functionality
is delivered from the server side of the visualization engine while the
client perform very simple display and  **querying**  functions. Web
**components**  and Plug-ins are now being used to overcome some of these
limitations. Java allows the creation of `applets' and `JavaBeans' and we
have Windows/COM  **components** . These  **components**  together with data
reduction methods can significantly increase the data interaction between
the client application and user, and allow tasks to be executed on the
client. Highly interactive user interface tasks are delivered that provide
point-and-click navigation through multidimensional data structures. Visual
data interfaces such as information drilling, moving a cutting plane
through a volume data set etc can be supported. The implication of using a
static VRML environment with reduced geometry is compared to sending
compressed data to the client and perform interactive client data
visualization on a desktop. (Author abstract) 5 Refs.
  Descriptors: Data communication systems; Wide area networks; Interactive
computer graphics; Graphical user interfaces; High level languages;
**Virtual    reality** ; Computer operating systems; Data structures;
Computational geometry; Visualization
  Identifiers: Information visualization; World wide web (WWW);  **Virtual
reality**  modeling language (VRML)
  Classification Codes:
  723.1.1  (Computer Programming Languages)
  722.3  (Data Communication, Equipment & Techniques); 723.5   (Computer
Applications); 722.2  (Computer Peripheral Equipment); 723.1   (Computer
Programming); 723.2  (Data Processing)
  723  (Computer Software); 722  (Computer Hardware)
  72  (COMPUTERS & DATA PROCESSING)

04862131   E.I. No: EIP97103899803
   **Title: Uniform quantifier elimination and constraint** query processing
   Author: Basu, Saugata
   Corporate Source: Mathematical Sciences Research Inst, Berkeley, CA, USA
   Conference Title: Proceedings of the 1997 22nd International Symposium on
Symbolic and Algebraic Computation, ISSAC
   Conference Location: Maui, HI, USA    Conference Date: 19970721-19970723
   Sponsor: ACM
   E.I. Conference No.: 47175
   Source:  Proceedings  of  the  International  Symposium  on  Symbolic and
Algebraic Computation, ISSAC 1997. ACM, New York, NY, USA. p 21-27
   Publication Year: 1997
   CODEN: 002153
   Language: English
   Document Type: CA; (Conference Article)   Treatment: T; (Theoretical)
   Journal Announcement: 9712W4
   Abstract: In this paper we introduce a variant of the quantifier
elimination problem for the first order theory of **real** closed **fields** .
Instead of considering a single quantified formula, we consider a uniform
sequence of such formulas and eliminate quantifiers to obtain another
uniform sequence. Our immediate motivation comes from a problem in the
theory of constraint **databases** with real polynomial constraints. Using
the uniform quantifier elimination algorithm, we give an algorithm for
**converting** a **query** with natural domain semantics to an equivalent one
with active domain semantics. A non-constructive version of this result was
proved in left bracket 2 right bracket . Very recently, a constructive
proof was also given independently in left bracket 5 right bracket . In the
last part of the paper, using some elementary tools from first order logic
and results described above, we prove that parity is not expressible in the
constraint **query** language over the reals. This was proved by Benedikt et
al. However unlike ours, their proof uses difficult techniques from
non-standard analysis and model theory of ordered structures. (Author
abstract) 24 Refs.
   Descriptors: **Query** languages; Algorithms; Polynomials; Constraint
theory; Computational linguistics; Theorem proving; Formal logic;
Mathematical models
   Identifiers: Uniform quantifier elimination algorithms; Constraint **query**
processing
   Classification Codes:
   723.1.1  (Computer Programming Languages)
   723.1  (Computer Programming); 921.1  (Algebra); 721.1  (Computer Theory,
Includes Formal Logic, Automata Theory, Switching Theory, Programming
Theory)
   723  (Computer Software); 921  (Applied Mathematics); 721  (Computer
Circuits & Logic Elements)
   72  (COMPUTERS & DATA PROCESSING); 92  (ENGINEERING MATHEMATICS)

    In the distributed processing environment, there are many diverse
approaches in studying a hypothesis. This is partially due to a lack of a
standardized software product which could support distributed system
applications. The design of the Distributed System Testbed is one attempt
at reducing the need for such a software product. The testbed allows for
distributed processing research and analysis by establishing the unique
conditions necessary for the execution of distributed processing
algorithms.
    This project designed an architecture with three levels. The first
level determines the elementary or low-level functions needed to support a
testbed. Along with local resource management, these functions include
simulating the behavior of a standard network type (routing and
message-passing) on a **physical**  network and creating a **virtual**
configuration.
    The second level identifies the higher-level functions  **associated**
with a distributed data environment. These functions manage the data
topology of the entire network by simulating a **virtual**  file from all
existing attributes. Each user **requests** a subset of this **virtual**  file
or one **logical**  record. Conceptually, this **logical**  record can be
described as a **Virtual**  Distributed Data Structure (VDDS). A VDDS requires
no **physical**  interdependencies of any data fragments and is dynamically
created.
    The third level deals with the application-support functions (e.g.
distributed database). These functions include transaction processing
features and distributed concurrency control algorithms.
    The algorithms supervise accessing local data fragments and can be
interpreted as performing a **Virtual**  Access Logic (VAL). Having VAL manage
a VDDS **realizes** a **Virtual**  Distributed Access Method (VDAM).
    The evaluation aspect of the system focuses on **module**  reactions to
resource manipulations. This allows for greater freedom in transaction
profiles and more complete statistics for recorded parameters.
    The result of this project is a clearly-defined set of specifications
which will encourage the implementation of this system. These
specifications include the system architecture, functional description of
all **components**  (and subcomponents), transaction processing events (i.e.
control flow and data paths) and evaluation measures. By providing this
system, a standard for comparison of distributed processing research could
exist which will benefit the computer science community.
    All software is designed as modular, message-passing subsystems that
facilitate extensions and **modifications** . This flexibility allows for the
insertion of new **modules**  and the replacement of corrected ones.

890472  ORDER NO: AAD85-18098
A MECHANISM FOR NATURAL LANGUAGE DATABASE (ARTIFICIAL INTELLIGENCE)
    Author:  FEINAUER, RICHARD ALLEN
    Degree:  PH.D.
    Year:    1985
    Corporate Source/Institution:  UNIVERSITY OF CINCINNATI (0045)
    Source:  VOLUME 46/06-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
             PAGE 1980.  367 PAGES
    Descriptors:  COMPUTER SCIENCE
    Descriptor Codes:  0984

        The purpose of this dissertation is to investigate the capabilities of
a transportable natural language database **query** methodology that has only
a surface level understanding of the user's **query** and uses a relational
**logical** schema as the basis of its world model. A secondary goal of this
dissertation is to explore the usefulness of explicit optimization
techniques in a natural language database **query** methodology.
        The basic features of the methodology described in this
dissertation and implemented in a test system called DRIVER are an Analyzer
that **converts** the user's **query** into a relational algebra statement and
an Evaluator which **converts** the relational algebra statement into the
data manipulation language of the target database management system and
presents the answer to the user. The Analyzer contains five **components** .
They are: a Word Role Identifier, a Phrase Segmenter, a Phrase Analyzer, a
**Query** Generator, and a User Dialog. Each **component** transforms the **query**
into a form which is closer to the relational algebra statement than its
input. The Analyzer has four external sources of information. They are: a
**query** grammar, a world model, a **query** complexity measure, and the user.
The world model is based on a relational **logical** schema of the target
database domain. The **physical** database may have any organization provided
that a relational schema can be **mapped** onto it. Both the **query** grammar
and the complexity measure make extensive use of the **logical** schema.
        The investigative methodology was evaluated using 640 test
**queries** . Four hundred and four (63.1%) of those **queries** were interpreted
correctly. One hundred and fourteen (17.9%) of the **queries** were
interpreted substantially correctly (the interpretation was correct but
unfriendly or it provided a super set of the desired information). One
hundred and twenty two (19.0%) of the **queries** were not interpreted
correctly. Three hundred and thirty three of the 404 correctly interpreted
**queries** and 85 of the 114 substantially correctly interpreted **queries**
had only a single interpretation. For the remaining **queries** two or more
interpretations were produced and the user had to select the correct
interpretation.
        This dissertation makes contributions to the following aspects of
natural language database **query** research: improved understanding of the
capabilities and limitations of methodologies that have only a surface
level understanding of the **query** , improved understanding of the
limitations and capabilities of the **logical** schema as the basis of a
world model, and a demonstration of the usefulness of explicit optimization
techniques in natural language research. This dissertation also develops a
powerful dis-ambiguation **tool** called the complexity measure.

3102621
**Method for accessing** real **-time data in an automatic call distribution system.**
Author(s): Brouillet, J -L; Ehrlich, J.; Joyce, R.; Rosler, J.
Patent Number(s): US 5546455
Publication Date: Aug 13, 1996
Language: English
Document Type: Patent
Record Type: Abstract
Journal Announcement: 3100

In an automatic call distribution (ACD) system having a plurality of
client systems and at least one host server system, the host server system
for conducting transactions in **real** time, a method is provided for
creating and reporting data substantially synchronously with other data and
in substantial **real** -time with events which generate the data wherein at
the host server system **requests** are handled and **translated** directly
into executable machine code containing all knowledge needed to execute the
**request** as a **query** as if the **query** were directed to a relational
**database** , a **query** in **real** -time interaction is used to access data in
shared memory of those host server system and report information, typically
status information related to transactions of interest, to the **requesting**
client system. Method and apparatus are provided for **mapping** between the
**logical** view of shared memory and the **physical** structure of shared
memory wherein in the form of a data access **module** which provides a
function to execute for each **field** in the **logical** view of shared
memory. A **database** manager **module** is employed to monitor data in a
static **database** and to provide relevant information to shared memory for
access by the data access **module** , so that the data access **module** need
not access the static **database** directly.

Descriptors: Access methods; Client server systems; Communications;
  **Database** management systems
Classification Codes and Description: 3.11 (Communications and
  Telecommunications Systems); 5.11 (Searching and Retrieval)
Main Heading: Information Generation and Promulgation; Information
  Processing and Control

22/5/30      (Item 10 from file: 2)
DIALOG(R)File    2:INSPEC

02339189   INSPEC Abstract Number: C84051438
 **Title: The multi-layer logic as a rational** database   query **language and
its reduction algorithm to relational procedure**
   Author(s): Udagawa, Y.; Ohsuga, S.
   Author Affiliation:  Inst. of Interdisciplinary Res., Faculty of Engng.,
Univ. of Tokyo, Tokyo, Japan
   Abstract: This paper discusses a method for describing rational- **database
   queries** by means of a multilayer logical expression and an algorithm for
 **converting**   the  logical  expression  into  the retrieval procedure. The
multilayer  logical  expression used as **database    query** language has the
following  features:  (1)  set  operations  can  be performed without using
special  symbols  and  procedure **elements** , (2) **virtual**  relations can be
defined  from  the  relation  stored  in a computer, and (3) the multilayer
logical expression can be used as objective languages for **query**  language.
(12 Refs)
   Subfile: C
   Descriptors: **database**  management systems; information retrieval
   Identifiers: multi-layer logic; rational **database    query** language;
reduction algorithm; relational procedure; rational- **database    queries** ;
multilayer logical expression; **database    query** language; set operations;
virtual relations
   Class Codes: C6140D (High level languages); C6160D (Relational DBMS);
C7250  (Information storage and retrieval)